

a first detection means for detecting a level of a first labeling signal emitted by a first labeling substance, which labels a plurality of known different specific binding substances respectively disposed at a plurality of predetermined positions on a carrier of a test piece, for each of said plurality of predetermined positions;

a second detection means for detecting a level of a second labeling signal emitted by a second labeling substance, which differs from said first labeling substance and labels an organism-originated substance bound to said specific binding substance, for each of said plurality of predetermined positions; and

an analyzing means for measuring a quantity of said organism-originated substance bound to said specific binding substance, based on the detected level of said second labeling signal, corrected for the detected level of said first labeling signal.

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~~2~~ ~~26~~. (Twice amended) The apparatus as set forth in claim ~~25~~, wherein said specific binding substance is a cDNA polynucleotide.

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~~3~~ ~~27~~. (Twice amended) The apparatus as set forth in claim ~~25~~, wherein said analyzing means performing said measurement utilizes a correction value calculated for each specific binding substance used in the method.

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~~4~~ ~~28~~. (Twice amended) The apparatus as set forth in claim ~~26~~, wherein said analyzing means performing said measurement utilizes a correction value calculated from information about 1) the length of the cDNA polynucleotide and 2) the relative frequency of the first labeling substance within each cDNA polynucleotide used in the method.

~~29~~⁵. (amended) The apparatus as set forth in claim ~~28~~¹, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

~~30~~⁶. (amended) The apparatus as set forth in claim ~~28~~², wherein said first labeling substance for said specific binding substances is a fluorescent dye.

~~31~~⁷. (amended) The apparatus as set forth in claim ~~27~~³, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

~~32~~⁸. (amended) The apparatus as set forth in claim ~~28~~⁴, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

~~33~~⁹. (amended) The apparatus as set forth in claim ~~28~~¹, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

~~34~~¹⁰. (amended) The apparatus as set forth in claim ~~26~~², wherein said first labeling substance for said specific binding substances is a radioactive isotope.

~~35~~¹¹. (amended) The apparatus as set forth in claim ~~27~~³, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

~~36~~¹². (amended) The apparatus as set forth in claim ~~28~~⁴, wherein said first labeling substance for said specific binding substances is a radioactive isotope.